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NOTICE OF ALLOWANCE AND FEE(S) DUE

71134 7590 01/07/2011 Edwards Vacuum, Inc. 2041 MISSION COLLEGE BOULEVARD SUITE 260

SANTA CLARA, CA 95054

EXAMINER
YOUNG, NATASHA E
ART UNIT PAPER NUMBER

DATE MAILED: 01/07/2011

 APPELICATION NO.
 FILINO DATE
 FIRST NAMED INVENTOR
 ATTORNEY DOCKET NO.
 CONTREMATION NO.

 10667 817
 02/08/2006
 Jeremy Daniel McKendrick Watson
 MO1B128
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 APPLN. TYPE
 SMALL ENTITY
 ISSUE FEE DUE
 PUBLICATION FEE DUE
 PREV. PAID ISSUE FEE
 TOTAL FEE(S) DUE
 DATE DUE

 nonprovisional
 NO
 \$1510
 \$300
 \$0
 \$1810
 0407/2011

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FIEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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appropriate. All further indicated unless corrects maintenance fee notifica	correspondence includir ed below or directed oth	or transmit ig the Pater nerwise in I	ung the 1880 it, advance of Block 1, by (a	rders and notification a) specifying a new o	of n	naintenance fees w pondence address;	ill be and/or	mailed to the current (b) indicating a sepa	corresponding the corresponding to the correspondin	idence address as E ADDRESS" for	
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)					Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.						
SUITE 260	COLLEGE BOULE					Cer	tificate	of Mailing or Trans s) Transmittal is being ficient postage for fire ISSUE FEE address I) 273-2885, on the d	mission		
SANTA CLARA	A, CA 95054									(Depositor's name)	
										(Signature)	
					L					(Date)	
APPLICATION NO.	PLICATION NO. FILING DATE			FIRST NAMED INVENTOR			ATTORNEY DOCKET NO.			RMATION NO.	
10/567,817 TITLE OF INVENTION	02/08/2006 : PURIFIER		Jere	my Daniel McKendric	k Wa	atson		M01B128		4459	
APPLN. TYPE	SMALL ENTITY	ISSUE	FEE DUE	PUBLICATION FEE I	OUE	PREV. PAID ISSUE	S FEE	TOTAL FEE(S) DUE	DATE DUE		
nonprovisional	NO		1510	\$300	\$300			\$1810		04/07/2011	
EXAM	EXAMINER		UNIT	CLASS-SUBCLASS	3						
YOUNG, N.	ATASHA E	I	774	422-169000		1					
"Fee Address" ind PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A	ondence address (or Cha 3/122) attached. ication (or "Fee Address 12 or more recent) attach ND RESIDENCE DATZ less an assignee is ident h in 37 CFR 3.II. Comp	nge of Corr " Indication led. Use of:	espondence form a Customer	registered attorney 2 registered patent listed, no name wi THE PATENT (print of	ap to rnativ single or attor II be por or typ he pa	3 registered paten ely, e firm (having as a gent) and the name neys or agents. If o printed.	members of uno name	er a 2p to be is 3		has been filed for	
Please check the appropr	iate assignee category or	categories	(will not be pr	rinted on the patent):		Individual 🚨 Co	rporati	on or other private gro	oup entity	Government	
Advance Order -	To small entity discount p			b. Payment of Fee(s): A check is enclose Payment by credit The Director is he overpayment, to l	sed. it care	1. Form PTO-2038	is atta				
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NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if req records of the United Sta	uired) will i tes Patent a	ot be accepte nd Trademark	d from anyone other the Office.	han th	ne applicant; a regi	stered a	attorney or agent; or th	e assigne	e or other party in	
Authorized Signature						Date					
Typed or printed name				Registration No.							
This collection of inform an application. Confiden submitting the complete this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223	ation is required by 37 C tiality is governed by 35 d application form to the ons for reducing this but firginia 22313-1450. DC 13-1450.	ER 1.311. U.S.C. 122 USPTO. T rden, should NOT SEN	The information and 37 CFR ime will vary be sent to the D FEES OR	on is required to obtain 1.14. This collection of depending upon the de Chief Information C COMPLETED FORM	n or n is est indiv Office IS TO	etain a benefit by the imated to take 12 r idual case. Any co r, U.S. Patent and THIS ADDRESS	he publ minutes mment Traden i. SENI	lic which is to file (and to complete, including s on the amount of the lark Office, U.S. Dep D TO: Commissioner	by the U g gathering ne you re artment of for Patent	SPTO to process) ig, preparing, and quire to complete f Commerce, P.O. s, P.O. Box 1450,	

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DATE MAILED: 01/07/2011

APPLICATION NO.	FILING DATE FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/567,817	02/08/2006	Jeremy Daniel McKendrick Watson	M01B128	4459	
71134	7590 01/07/20	ı	EXAMINER		
Edwards Vacu	ım. Inc.	YOUNG, NATASHA E			
	COLLEGE BOULEV	ART UNIT	PAPER NUMBER		
SUITE 260 SANTA CLAR	CA 95054		1774		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 461 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 461 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)				
10/567,817	WATSON ET AL.				
Examiner	Art Unit				
NATASHA YOUNG	1774				

The MAILING DATE of this communication appears on the cover sheet with the correspondence address
All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included
herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS
NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative
of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.
1. This communication is responsive to appeal brief filed November 10, 2010.

- 2. The allowed claim(s) is/are 1 and 3-23.
- 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - i) ☑ All b) ☐ Some* c) ☐ None of the:
 - 1. A Certified copies of the priority documents have been received.
 - 2. Certified copies of the priority documents have been received in Application No.
 - Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- 5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) hereto or 2) to Paper No./Mail Date _____.
 - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

 DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- 1. Notice of References Cited (PTO-892)
- 2. Notice of Draftperson's Patent Drawing Review (PTO-948)
- Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date
- Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 5. Notice of Informal Patent Application
- Interview Summary (PTO-413), Paper No./Mail Date .
- 7.

 Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance
- 9. 🔲 Other ____

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DETAILED ACTION

Allowable Subject Matter

Claims 1 and 3-23 are allowed.

The closest prior art references are Krueger et al (US 5,911,560), Goodell et al (US 4,942,019), della Porta et al (US 4,137,012), and Deninger et al (US 2002/0051712 A1).

The following is an examiner's statement of reasons for allowance:

Regarding claim 1, Goodell et al discloses a purifier for use in a gas processing application, comprising a chamber (C) having a gas inlet and a gas outlet (see figure 2) at least one baffle (24) arranged in the chamber, a source of the getter material within the chamber (25); and means for activating the source of the getter material (16) (see Abstract; figures 2-3; and column 2, line 49 through column 3. line 47).

della Porta et al discloses at least one baffle (strips, 46 and 48) having a coating comprising a getter material to react with species to be removed from a gas stream and form stable compounds and means for activating the source of the getter material to refresh the coating of getter material on the at least one baffles (see column 5, line 3 through column 6, line 8 and figures 4-6) but uses non-evaporable getter material such as titanium (see column 2, lines 48-59).

Deninger et al discloses the use of fresh and extremely pure metallic getter surface can be produced by evaporation or cathode sputtering in a vacuum or nonApplication/Control Number: 10/567,817

Art Unit: 1774

evaporative getter (NEG) may be used (see paragraph 0102) and a gas purification unit wherein the titanium getter material is re-activated by the evaporation of fresh titanium (see paragraph 0104).

The prior art references do not disclose or suggest the combination of at least one baffle arranged in a chamber having a coating of getter material, a source of getter material in the chamber, and means for vaporizing the getter material to refresh the coating of getter material on the at least one baffle.

Claims 3-15 depend on claim 1.

Regarding claim 16, Krueger et al discloses a semiconductor process system (100) with getter assembly (202) with getter pumps (114, 116) with baffles (204) and a support element (210), which can further include a resistive element (212) (see figures 1-2; column 4, line 66 through column 5, line 18; and column 6, lines 15-43).

Goodell et al discloses a purifier for use in a gas processing application, comprising a housing (C) having a gas inlet and a gas outlet (see figure 2) at least one baffle (24) arranged in the housing, a source of the getter material (25); and means for activating the source of the getter material (16) (see Abstract; figures 2-3; and column 2, line 49 through column 3, line 47).

della Porta et al discloses at least one baffle (strips, 46 and 48) having a coating comprising a getter material to react with species to be removed from a gas stream and form stable compounds and means for activating the source of the getter material to refresh the coating of getter material on the at least one baffles (see column 5, line 3 through column 6, line 8 and figures 4-6) and a means for applying an electric potential

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across the source of the getter material and the housing (see column 4, lines 50-59), which discloses that an electrical potential is produced within the vacuum vessel. della Porta et al discloses using non-evaporable getter material such as titanium (see column 2, lines 48-59).

Deninger et al discloses the use of fresh and extremely pure metallic getter surface can be produced by evaporation or cathode sputtering in a vacuum or non-evaporative getter (NEG) may be used (see paragraph 0102) and a gas purification unit wherein the titanium getter material is re-activated by the evaporation of fresh titanium (see paragraph 0104).

The prior art references do not disclose or suggest the combining of a process chamber having a purified gas inlet; a purifier comprising a gas outlet upstream of the purified gas inlet; at least one baffle arranged within the housing and comprising a getter material; a source of the getter material; and a means for applying an electric potential across the source of the getter material and the housing, thereby vaporizing the source of the getter material to refresh the coating of the getter material on the at least one baffle.

Claims 17-23 depend on claim 16.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to NATASHA YOUNG whose telephone number is 571-270-3163. The examiner can normally be reached on Mon-Thurs 7:30 am-6:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Walter Griffin can be reached on 571-272-1447. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/N. Y./

Examiner, Art Unit 1774

/Walter D. Griffin/

Supervisory Patent Examiner, Art Unit 1774